

Pressure

Compact Pressure Switch

Series 8000

Features

- ▶ Proven design in stationary and mobile hydraulic applications
- ▶ Wide setpoint pressure range
- ▶ Available in wide range of configurations
- ▶ Precise setpoint adjustment
- ▶ Factory preset or field adjustable
- ▶ UL Type 4
- ▶ Modular concept
- ▶ Manifold mount
- ▶ Additional process connections

Applications

- ▶ Hydraulic power packs
- ▶ Machine tools
- ▶ Overload controls
- ▶ Railways
- ▶ Factory automation
- ▶ Balers and compactors



General Specifications*

Repeatability:	±2% typical, diaphragm models ±1% typical, piston models
Microswitch:	SPDT contact
Rating:	Silver contacts: 3A @ 250 VAC 5A @ 125 VAC 3A @ 30 VDC Gold contacts: 0.1A @ 125 VAC 0.1A @ 30 VDC
Switching Frequency:	Max. 60 /min piston switch Max. 30/ min diaphragm switch
Wetted Parts:	
Process Fitting:	300 series stainless steel
Housing:	Aluminum die-cast 230
Seals & Diaphragms:	Buna-N (NBR) standard; FKM, EPDM (EPR) optional
Adjustment Screw:	300 stainless steel (HEX 5 mm)
Electrical Connection/ Rating:	For IP rating and electrical connections see page 2
Enclosure Ratings*:	NEMA 4

Pressure Connection:	Standard manifold (Additional options available; see product configurator)
Approvals:	
Standard:	UL / cULus (CSA)
Ambient Temperature Range:	
Piston Switch:	-40°F to +167°F (-40°C to +75°C)
Diaphragm Switch:	-4°F to +167°F (-20°C to +75°C)
Adjustment Instructions:	
Setpoint Adjustment:	Turn adjustment screw clockwise to increase pressure setpoint; counterclockwise to decrease pressure setpoint.
Shipping Weight:	
Manifold Version:	0.77 lbs. (350 g)
Adaptor Version Straight:	1.36 lbs. (620 g)
Adaptor Version 90° Angle:	1.48 lbs. (675 g)

* See product configurator for additional options.

Wiring Code

(contact status at atmospheric pressure)



	DIN 43650 Plug (T/B)	M12 Plug (M)	Cable Gland (P)	1/2" NPT Conduit w/ Free Leads (C)
Common	1	1	White	Violet
Normally Closed	2	2	Black	Blue
Normally Open	3	4	Red	Red
Ground	GRD	3	Green	Green

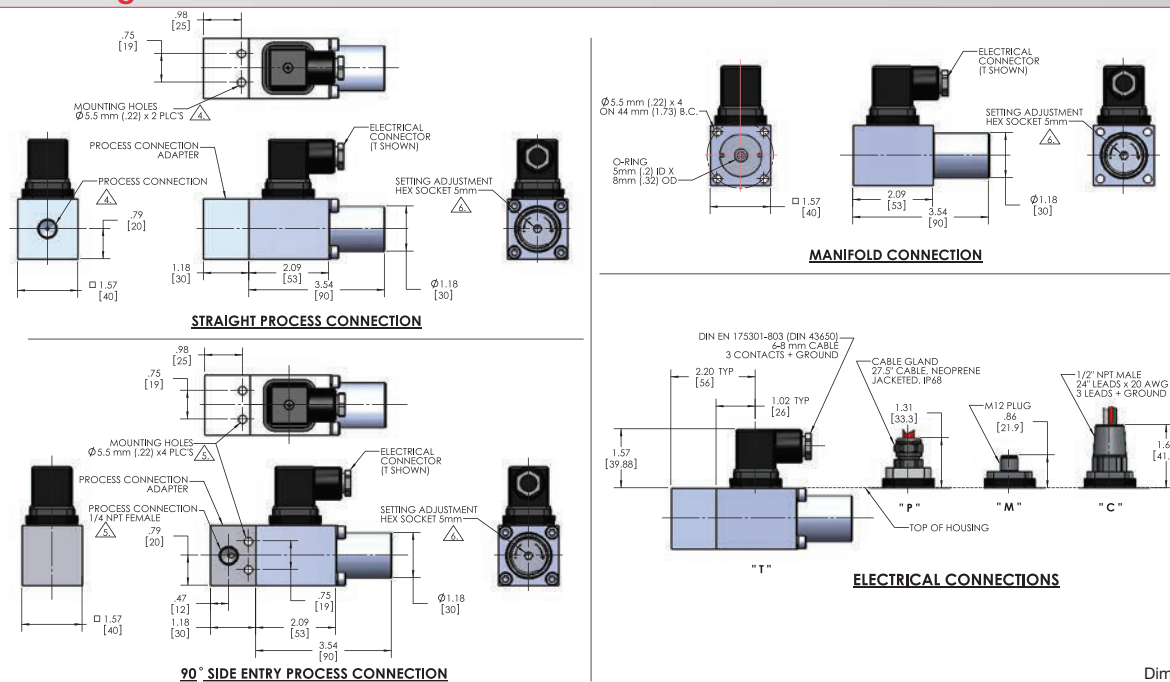
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Technical Drawings



Dimensions in mm (inch)

Product Configurator

Example: **8** **A** **A** **1** **T** **B**

Series

* Highlighted options represent those most frequently used.

Select these common options for improved availability. (5/21)

8 Series 8000

Process Connections¹

1²	Manifold connection flange 40 x 40
2	G1/4" female
A	1/4" NPT female
C	1/8" NPT female
D	1/4" NPT female, 90° side entry
E	7/16-20 UNF SAE-4 female
F	9/16-18 UNF SAE-6 female

SPDT Contacts

1	Silver
2	Gold-plated

*Electrical Connectors

T	Plug DIN 43650 A, IP65 (UR only) (formerly PL1)
B	DIN 43650, without mating plug, IP65
M	Plug M12, 4-pol. without female plug, IP67 (UR only) (formerly PL2)
P	Cable gland, 27.5" (0.7 m) cable, neoprene jacketed, IP68 (formerly CA3)
C	1/2" NPTM AWG 20 with 24" (60 cm) leads (3 leads + ground) (formerly CD1)

*Electrical connectors listed meet NEMA 4 rating

Pressure Range

	Adjustable Ranges				Max. Hysteresis ³ (Dead-band)	Max. Operating Pressure		Proof Pressure	
	(decreasing pressure) psi	(increasing pressure) bar	(decreasing pressure) psi	(increasing pressure) bar		psi	bar	psi	bar
Diaphragm									
A	5.8 - 82	0.4 - 5.7	8.7 - 87	0.6 - 6	≤15% of max adjustable range	725	50	1200	80 ⁽¹⁾
B	29 - 246	2.0 - 17	45 - 290	3.1 - 20		725	50	1200	80 ⁽¹⁾
C	43 - 600	3.0 - 41	60 - 650	4.1 - 45		725	50	1200	80 ⁽¹⁾
Piston									
D⁸	43 - 2320	3.0 - 160	75 - 2610	5.0 - 180	≤15% of max adjustable range	3600	250	8700	600
E⁸	430 - 4300	30 - 300	750 - 5000	50 - 350		6500	450	8700	600
F⁸	800 - 7550	55 - 520	1200 - 8700	80 - 600		8700	600	13050	900

⁽¹⁾ Proof pressure 2900 psi (200 bar) on request (May shorten the lifetime of the switch).

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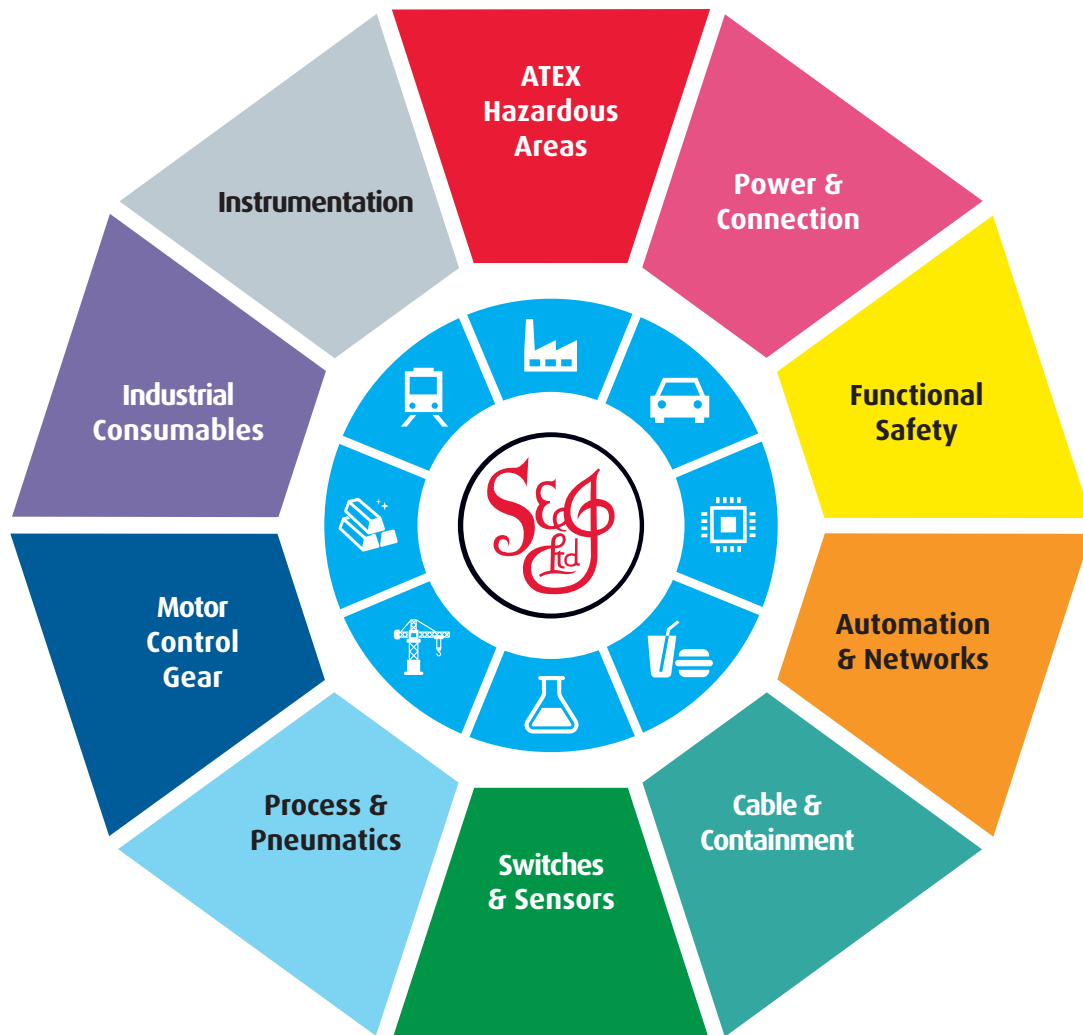
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